

Title (en)
A MULTI-SPEAKER METHOD AND APPARATUS FOR LEAKAGE CANCELLATION

Title (de)
VERFAHREN MIT MEHREREN LAUTSPRECHERN UND VORRICHTUNG ZUR LECKAGEUNTERDRÜCKUNG

Title (fr)
PROCÉDÉ ET APPAREIL À HAUT-PARLEURS MULTIPLES POUR UNE ANNULATION DE FUITE

Publication
EP 3338466 B1 20210616 (EN)

Application
EP 16758040 A 20160819

Priority
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Abstract (en)
[origin: WO2017035013A1] Embodiments of systems and methods are described for reducing undesired leakage energy produced by a non-front-facing speaker (112a, 112n, 116a, 116n) in a multi-speaker system. For example, the multi-speaker system can include an array of forward-facing speakers (114a, 114n), one or more upward-facing speakers (112a, 112n), and/or one or more side-facing speakers (116a, 116n). Filters coupled to any two of the speakers in the multi-speaker system can generate audio signals output by the coupled speakers to reduce, attenuate, or cancel a portion of an audio signal output by one or more non-front-facing speakers that acoustically propagates along a direct path (130a-c) from the respective non-front-facing speaker to a listening position (120a-c) in a listening area (122) in front of the multi-speaker system.

IPC 8 full level
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Citation (examination)
• US 2011216924 A1 20110908 - BERARDI WILLIAM [US], et al
• WILLIAM G GARDNER: "3-D Audio Using Loudspeakers", 1 September 1997 (1997-09-01), Massachusetts Institute of Technology, pages 1 - 153, XP055098835, Retrieved from the Internet <URL:http://sound.media.mit.edu/Papers/gardner_thesis.pdf> [retrieved on 20140128]
• "Spatial Audio", 1 January 2001, FOCAL PRESS, ISBN: 978-0-240-51623-3, article FRANCIS RUMSEY: "section 3.2 Binaural sound and 3D audio systems", pages: 64 - 81, XP055692149

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